

What is claimed is:

1. A composition for preserving a grain product having a water activity greater than 0.70 and initial levels of microbes that cause spoilage of the grain product, comprising:

- (a) between about 90 and 99.9 weight percent of one or more organic acids selected from the group comprising propionic, acetic, sorbic, citric, ascorbic, benzoic, and phosphoric acids;
- (b) between about 0 and about 10 weight percent of one or more synthetic or natural antioxidants selected from the group comprising TBHQ, citric acid, BHT, BHA, tocopherols, and extracts of rosemary;
- (c) between about 0 and about 10 weight percent of one or more synthetic or natural surfactants selected from the group comprising propylene glycol, lecithin, lysolecithin, and mono- and diglycerides; and
- (d) wherein the composition is applied to the grain product at between about 0.05 and about 2.5 weight percent to maintain or reduce the level of microbes in the grain product at or below the initial levels for a period of not less than 7 days.

2. A composition as defined in claim 1, wherein the organic acid component comprises one or more acids of the group consisting of propionic, acetic, benzoic, and sorbic acid.

3. A composition as defined in claim 1, wherein animals fed the treated grain product and the untreated grain product consume an equal amount of the treated grain product as the untreated grain product on a dry matter basis.

4. A method for preserving a grain product having a water activity greater than 0.70 and initial levels of microbes that cause spoilage of the grain product, comprising:

- (a) selecting between about 90 and 99.9 weight percent of one or more organic acids from the group comprising propionic, acetic, sorbic, citric, ascorbic, benzoic, and phosphoric acids;
- (b) selecting between about 0 and about 10 weight percent of one or more synthetic or natural antioxidants from the group comprising TBHQ, citric acid, BHT, BHA, tocopherols, and extracts of rosemary;
- (c) selecting between about 0 and about 10 weight percent of one or more synthetic or natural surfactants from the group comprising propylene glycol, lecithin, lysolecithin, and mono- and diglycerides; and
- (d) applying the surfactant and/or antioxidant component or components and the organic acid component to a quantity of a grain product wherein the components are applied to the grain product at between about 0.05 and about 2.5 weight percent to maintain or reduce the level of microbes in the grain product at or below the initial levels for a period of not less than 7 days.

5. The method of claim 4, wherein the grain product is selected from the group comprising wet corn gluten feed, wt distiller's grain solubles, distillers dried grains, fuzzy

cottonseed, wet and dry brewers grains, cottonseed meal, corn hominy feed, almond hulls, wet and dry sugar beet pulp, canola meal, citrus pulp, rice bran, safflower meal, soybean hulls, food processing waste, and wheat mill run.

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